

## **Abstract**

5 For material reduction, a fan blade made of solid material for a gas-turbine engine is provided in the area of the blade tip with at least one cavity (5) extending from the face of the blade tip. Thus, apart from the aspect of weight saving, the vibration amplitudes and the centrifugal forces can be reduced considerably and the natural vibration behavior improved in a simple manner, ultimately increasing mechanical  
10 strength.